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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/970,318

DATE: 10/17/2001
TIME: 10:46:55

Input Set : A:\249.00020101.ST25.txt
Output Set: N:\CRF3\10172001\I970318.raw

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3 <110> APPLICANT: Cosgrove, Dominic
5 <120> TITLE OF INVENTION: Immunodiagnostic Determination Of Usher Syndrome Type IIa
7 <130> FILE REFERENCE: 249.00020101
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/970,318
C--> 9 <141> CURRENT FILING DATE: 2001-10-03
9 <150> PRIOR APPLICATION NUMBER: US 60/237,834
10 <151> PRIOR FILING DATE: 2000-10-03
12 <160> NUMBER OF SEQ ID NOS: 4
14 <170> SOFTWARE: PatentIn version 3.0
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17 <211> LENGTH: 23
18 <212> TYPE: PRT
C--> 19 <213> ORGANISM: Artificial
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22 <223> OTHER INFORMATION: Immunogen
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33 <211> LENGTH: 201
34 <212> TYPE: PRT
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42 Asp Asn Arg Val Ser Arg Leu Asn Pro Glu Ala His Pro Leu Ser Phe
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45 Val Asn Asp Asn Asp Val Gly Thr Ser Trp Val Ser Asn Val Phe Thr
46 35 40 45
48 Asn Ile Thr Gln Leu Asn Gln Gly Val Thr Ile Ser Val Asp Leu Glu
49 50 55 60
51 Asn Gly Gln Tyr Gln Val Phe Tyr Ile Ile Gln Phe Phe Ser Pro
52 65 70 75 80
54 Gln Pro Thr Glu Ile Arg Ile Gln Arg Lys Lys Glu Asn Ser Leu Asp
55 85 90 95
57 Trp Glu Asp Trp Gln Tyr Phe Ala Arg Asn Cys Gly Ala Phe Gly Met
58 100 105 110
60 Lys Asn Asn Gly Asp Leu Glu Lys Pro Asp Ser Val Asn Cys Leu Gln
61 115 120 125
63 Leu Ser Asn Phe Thr Pro Tyr Ser Arg Gly Asn Val Thr Phe Ser Ile
64 130 135 140
66 Leu Thr Pro Gly Pro Asn Tyr Arg Pro Gly Tyr Asn Asn Phe Tyr Asn
67 145 150 155 160
69 Thr Pro Ser Leu Gln Glu Ser Val Lys Ala Thr Gln Ile Arg Phe His
70 165 170 175

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80 <212> TYPE: DNA
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88 cggcctgtt gaagagccat ttgtcacact gagggactg gttgaaatgc aataaagaaa 180
90 tgataccagc agctactcat gtcttcgcca ttgctaagaa cgtcgttgtt attaccttac 240
92 tctgagaacg tgtctgcagt ttccagaaaa tggagatatcg caacatcact taaagtaccc 300
94 tgcttcaaag tattgtggc aagtggcgtg ggcctgatta tttattnaga aatgtttat 360
96 caggaggaga atgcttttg taaacatgaa ttgcccagtt cttagtggcgtt gctctggcgtt 420
98 cttgtttcag gtcattgaaa tggatctt tgccatttt gcttcaatatt ccttgcactga 480
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102 gccaacccaa gcagtatgtg gactcccaga ccgaagcact tttgtcaca gctctgctgc 600
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146 gtactataca actgagactg ctgttaacct cagacacaga tattatgc当地 tggacgaaat 1920
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162 cattcttgc当地 gatcagatttgc当地 gaggacatgttgc当地 taatttgc当地 agacacgtgtt ctggcaggca 2400

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166	tccctgt	taac	tgcaatacct	ctgggacagt	ggatggagat	attacctgtc	2520	
168	aggccagtgc	aagtgc	aaag	caaacgttat	tgggcttagg	tgtgatcatt	2580	
170	atttaaattt	ctccg	aaagct	ttaatgtat	tggatgtgag	ccctgccagt	2640	
172	tggctc	atgtgc	aacaattt	gcaatcctca	ctctggcag	tgtgagtgc	2700	
174	caaaggactt	cagtgt	gaca	cctgcagaga	aaactttt	gggttagatg	2760	
176	taaggcctgt	gactgt	gaca	cagctggatc	cctccctggg	tcaccaattt	2820	
178	agggcagtgc	atctg	caagc	ccaatgttga	agggagacag	tgcaataat	2880	
180	aaacttctac	ctacgg	caaa	ataattctt	cctctgtctg	ccttgcaact	2940	
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184	aggggtaaca	ggtctc	gct	gtaatcagt	tgagcctcac	aggtacaatt	3060	
186	caattttcaa	cactg	ccaga	tgtgtgag	tgattcctt	gggacattac	3120	
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222	aaaaatcagt	tct	acaga	ac	t	tcatgt	4200	
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226	ggaaagtgc	gtt	ttc	aga	gc	gtgggtt	4320	
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230	caccaagtat	gag	ttc	ca	g	ttgtgt	4440	
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234	cct	ctt	tcg	tac	t	catt	4560	
236	aaa	agg	tgt	gt	ca	ttt	ttt	4620
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240	agg	act	gaa	ttt	at	ttt	ttt	4740
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244	ac	c	t	tc	ttt	gtt	gtt	4860
246	act	gaat	gg	ttt	tc	ttt	ttt	4920
248	gat	gacc	ac	ttt	tc	ttt	ttt	4980
250	ct	cc	act	ca	ttt	gtt	gtt	5040
252	gg	ag	ac	ac	ttt	gtt	gtt	5100
254	tt	at	ac	tt	ttt	gtt	gtt	5160
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260	ttt	gt	gaa	ttt	gtt	gtt	gtt	5340

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270	aaaagataac	ttctctaagc	caggactatg	gtaaagcaag	tgaggcttct	gttcgggtca	5640
272	caaaaattaa	aggcactaaa	aaactcagt	ttaatgtaaa	tttaatgca	atattttaa	5700
274	aaatgaaaat	caatgtgaaa	gcactataaa	aatattatca	aaagcttaaa	taaagacaga	5760
276	ttgaactctg	taccagcaca	atcctgcctc	actggcctt	ccctccttct	ggccttacta	5820
278	gtaccgcaat	attttggaaag	tcccatgacc	tctgtgactt	acagcttcta	atagcatgat	5880
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282	atttacaaag	tataagatat	atattattat	gtaaactcat	aaagatgttc	attnaatcat	6000
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297 <210> SEQ ID NO: 4

298 <211> LENGTH: 1551

299 <212> TYPE: PRT

300 <213> ORGANISM: Homo sapiens

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314						50				55				60		
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319	Ile	Gln	Phe	Cys	Thr	Gln	Arg	Phe	Cys	Ile	Gln	Asp	Cys	Pro	Tyr	Arg
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322	Ser	Ser	His	Pro	Thr	Tyr	Thr	Ala	Leu	Phe	Ser	Ala	Gly	Leu	Ser	Ser
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331	Pro	Ser	Pro	Lys	Leu	Met	Ala	Ser	Phe	Thr	Leu	Ala	Val	Trp	Leu	Lys
332						145				150				155		160
334	Pro	Glu	Gln	Gln	Gly	Val	Met	Cys	Val	Ile	Glu	Lys	Thr	Val	Asp	Gly
335						165				170				175		
337	Gln	Ile	Val	Phe	Lys	Leu	Thr	Ile	Ser	Glu	Lys	Glu	Thr	Met	Phe	Tyr
338						180				185				190		
340	Tyr	Arg	Thr	Val	Asn	Gly	Leu	Gln	Pro	Pro	Ile	Lys	Val	Met	Thr	Leu
341						195				200				205		
343	Gly	Arg	Ile	Leu	Val	Lys	Lys	Trp	Ile	His	Leu	Ser	Val	Gln	Val	His

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352	Gly	Thr	Val	Gln	Ile	Gly	Gln	Ser	Leu	Asn	Gly	Leu	Glu	Gln	Phe	Val
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355	Gly	Arg	Met	Gln	Asp	Phe	Arg	Leu	Tyr	Gln	Val	Ala	Leu	Thr	Asn	Arg
356																285
358	Glu	Ile	Leu	Glu	Val	Phe	Ser	Gly	Asp	Leu	Leu	Arg	Leu	His	Ala	Gln
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361	Ser	His	Cys	Arg	Cys	Pro	Gly	Ser	His	Pro	Arg	Val	His	Pro	Leu	Ala
362																320
364	Gln	Arg	Tyr	Cys	Ile	Pro	Asn	Asp	Ala	Gly	Asp	Thr	Ala	Asp	Asn	Arg
365																335
367	Val	Ser	Arg	Leu	Asn	Pro	Glu	Ala	His	Pro	Leu	Ser	Phe	Val	Asn	Asp
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370	Asn	Asp	Val	Gly	Thr	Ser	Trp	Val	Ser	Asn	Val	Phe	Thr	Asn	Ile	Thr
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373	Gln	Leu	Asn	Gln	Gly	Val	Thr	Ile	Ser	Val	Asp	Leu	Glu	Asn	Gly	Gln
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376	Tyr	Gln	Val	Phe	Tyr	Ile	Ile	Gln	Phe	Phe	Ser	Pro	Gln	Pro	Thr	
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379	Glu	Ile	Arg	Ile	Gln	Arg	Lys	Lys	Glu	Asn	Ser	Leu	Asp	Trp	Glu	Asp
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403	Ala	Asp	Asn	Cys	Asp	Thr	Thr	Ser	Gln	Pro	Tyr	Arg	Cys	Leu	Cys	Ser
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410																575
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VERIFICATION SUMMARY

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:19 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1